

SN 10/614,772

Docket No. S-100,626

In Response to Office Action dated September 20, 2005

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1 (original): A rotor for use in turbine applications comprising:

a radial compressor/pump having radially disposed spaced apart fins forming passages; and

a radial turbine having hollow turbine blades interleaved with said fins and through which fluid from said radial compressor/pump flows.

Claim 2 (original): The rotor as described in Claim 1 further comprising spaced apart turbine fins for receiving said fluid.

Claim 3 (canceled)

Claim 4 (currently amended): A turbine engine comprising:

a turbine engine housing, ~~said turbine engine housing having a compressor outlet volute and a turbine inlet scroll; and,~~

a single rotor mounted to a shaft inside said turbine engine housing, said rotor having a radial compressor/pump with axially disposed spaced apart fins forming passages, and an radial turbine having hollow radial turbine blades interleaved with said fins and through which air from said radial compressor/pump flows;—

~~wherein said radial compressor compresses fluid into said compressor outlet volute and heated exhaust fluid is directed through said hollow radial turbine blades from said turbine inlet scroll, causing said rotor to rotate.~~

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Claim 5 (currently amended) A The turbine engine of claim 4, additionally
comprising:

~~a turbine engine housing, said turbine engine housing having a
compressor outlet volute and a turbine inlet scroll;~~

~~— a single rotor mounted to a shaft inside said turbine engine housing, said rotor
having a radial compressor/pump with axially disposed spaced apart fins forming
passages, and a radial turbine having hollow radial turbine blades interleaved with said
fins and through which air from said radial compressor/pump flows;~~

magnets and windings positioned on said turbine engine between said turbine
engine housing and said single rotor for the production of electrical power;

~~wherein said radial compressor/pump compresses fluid into said compressor
outlet volute and heated exhaust air is directed through said hollow radial turbine blades
from said turbine inlet scroll, causing said rotor to rotate and produce electricity.~~